

Speed -Practice questions Name: _____

1. A football field is about 100.0 m long. If it takes a person 22 seconds to run its length, how fast were they running? $v = 4.5 \text{ m/s}$

2. The pitcher's mound in baseball is 85m from the plate. It takes 4.4 s for a pitch to reach the plate. How fast is the pitch? $v = 19 \text{ m/s}$

3. If you drive 115 km/hr for 6.0 hours, how far will you go? $d = 690 \text{ km}$

*4. If you run 12.0 m/s for 16.0 minutes, how far will you go? $d = 192 \text{ m}$ $d = 11520 \text{ m}$ $d = 960 \text{ m}$

4.

$$\frac{d}{v \times t}$$

OR $1.15 \times 10^4 \text{ m}$

$$d = ?$$

$$v = 12.0 \text{ m/s}$$

$$t = 16.0 \text{ min}$$

$$d = v t$$

$$d = 12.0 \text{ m/s} \times 960 \text{ s}$$

$$d = 11520 \text{ m}$$

$$d = 11500 \text{ m}$$

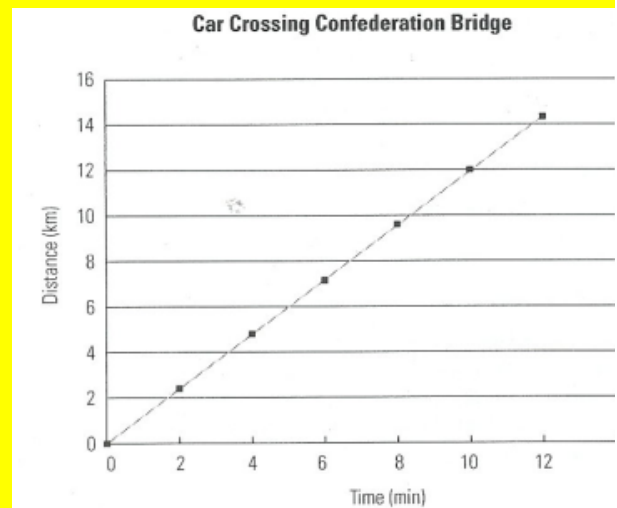
$$16.0 \times 60 = 960 \text{ s}$$

5. A bullet travels 855 m/s. How long will it take to get there if it travels at 105 km/hr, how much time will I spend driving?

5.

Table 4 Car Crossing Confederation Bridge	
Time (min)	Distance (km)
0.0	0.0
2.0	2.4
4.0	4.8
6.0	7.2
8.0	9.6
10.0	12.0
12.0	14.4

a)



b) after 5.0 min = _____ km

c) Length of time to cross bridge = _____

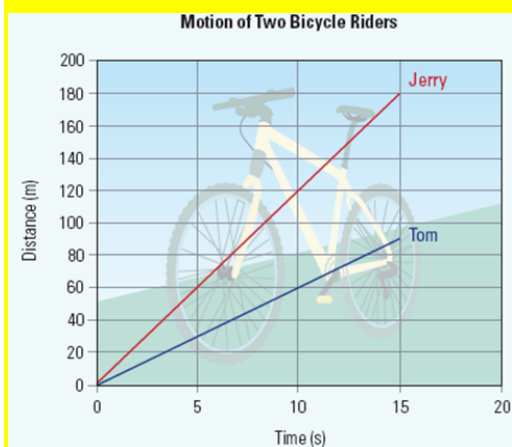
d) Was the speed constant? Explain.

Speed was constant because car travelled equal distances in equal time intervals. Also, the line is straight.

e) Slope = _

f) Speed = _____ km/h

6.



a) Greater speed = _____

b) Jerry's Speed = _____

$$V_{av} = \frac{\Delta \text{ distance}}{\Delta \text{ time}}$$

Tom's Speed = _____

$$V_{av} = \frac{\Delta \text{ distance}}{\Delta \text{ time}}$$

c) If a rider stopped the graph would....